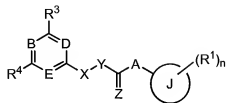


### Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

1. (original) A compound according to Formula I,



or a pharmaceutically acceptable salt, hydrate, or prodrug thereof, wherein,

B, D, and E are each independently either =N- or =C(R<sup>2</sup>)-, provided at least one of B, D, and E is =N-;

at each occurrence, each of R<sup>1</sup>, R<sup>2</sup>, and R<sup>3</sup> is independently selected from -H, halogen, trihalomethyl, -CN, -NO<sub>2</sub>, -OR<sup>5</sup>, -N(R<sup>5</sup>)OR<sup>5</sup>, -ON(R<sup>5</sup>)R<sup>5</sup>, -N(R<sup>5</sup>)N(R<sup>5</sup>)R<sup>5</sup>, -N(R<sup>5</sup>)R<sup>5</sup>, -S(O)<sub>0-2</sub>R<sup>5</sup>, -SO<sub>2</sub>N(R<sup>5</sup>)R<sup>5</sup>, -CO<sub>2</sub>R<sup>5</sup>, -C(O)N(R<sup>5</sup>)R<sup>5</sup>, -N(R<sup>5</sup>)SO<sub>2</sub>R<sup>5</sup>, -N(R<sup>5</sup>)C(O)R<sup>5</sup>, -N(R<sup>5</sup>)CO<sub>2</sub>R<sup>5</sup>, -C(O)R<sup>5</sup>, -C(=NR<sup>7</sup>)N(R<sup>5</sup>)R<sup>5</sup>, -C(=NR<sup>7</sup>)R<sup>5</sup>, -C(=NR<sup>7</sup>)OR<sup>5</sup>, -N(R<sup>5</sup>)C(=NR<sup>7</sup>)N(R<sup>5</sup>)R<sup>5</sup>, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted aryl, optionally substituted heterocyclyl, optionally substituted heterocyclylalkyl, and optionally substituted arylalkyl;

n is zero to five;

R<sup>4</sup> is selected from -H, halogen, -CN, -NO<sub>2</sub>, -N(R<sup>5</sup>)OR<sup>5</sup>, -ON(R<sup>5</sup>)R<sup>5</sup>, -N(R<sup>5</sup>)N(R<sup>5</sup>)R<sup>5</sup>, -OR<sup>5</sup>, -N(R<sup>5</sup>)R<sup>5</sup>, -S(O)<sub>0-2</sub>R<sup>5</sup>, -SO<sub>2</sub>N(R<sup>5</sup>)R<sup>5</sup>, -CO<sub>2</sub>R<sup>5</sup>, -C(O)N(R<sup>5</sup>)R<sup>5</sup>, -N(R<sup>5</sup>)SO<sub>2</sub>R<sup>5</sup>, -N(R<sup>5</sup>)C(O)R<sup>5</sup>, -N(R<sup>5</sup>)CO<sub>2</sub>R<sup>5</sup>, -C(O)R<sup>5</sup>, -C(=NR<sup>7</sup>)N(R<sup>5</sup>)R<sup>5</sup>, -C(=NR<sup>7</sup>)R<sup>5</sup>, -C(=NR<sup>7</sup>)OR<sup>5</sup>, -N(R<sup>5</sup>)C(=NR<sup>7</sup>)N(R<sup>5</sup>)R<sup>5</sup>, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted heterocyclyl, optionally substituted heterocyclylalkyl, and optionally substituted arylalkyl;

$R^2$  and  $R^3$ , together with the atom or atoms to which they are attached, can combine to form a three- to seven-membered optionally substituted heterocyclyl, optionally substituted aryl, or optionally substituted cycloalkyl;

$R^2$  and  $R^4$ , together with the atom or atoms to which they are attached, can combine to form a three- to seven-membered optionally substituted heterocyclyl, optionally substituted aryl, or optionally substituted cycloalkyl;

each  $R^5$  is independently selected from -H, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted lower arylalkyl, optionally substituted heterocyclyl, optionally substituted lower heterocyclylalkyl, and a single bond to an atom of  $R^1$ ;

two of  $R^5$ , together with the atom or respective atoms to which they are attached, can combine to form an optionally substituted three- to seven-membered heterocyclic;

$R^5$  and  $R^6$ , together with the atom or atoms to which they are attached, can combine to form a five- to seven-membered optionally substituted heterocyclyl;

$R^5$  and  $R^7$ , together with the atom or atoms to which they are attached, can combine to form a five- to seven-membered optionally substituted heterocyclyl;

each of X and Y is independently selected from -C(=O)-, -C( $R^6$ ) $R^6$ -, -O-, -N( $R^5$ )-, -C(=NR<sup>7</sup>)-, and -S(O)<sub>0.2</sub>-; provided when X is -O- or -N( $R^5$ )-, then Y cannot be -C(H) $R^{6a}$ -, where  $R^{6a}$  is -C( $R^{20}$ )( $R^{21}$ ) $R^{22}$  wherein at least one of  $R^{20}$ ,  $R^{21}$  and  $R^{22}$  is selected from phenyl, naphthyl, cyclohexyl, dihydronaphthyl tetrahydronaphthyl, and a five- to six-membered heteroaryl, each optionally substituted;

or X and Y can combine to form either -C( $R^6$ )=C( $R^6$ )- or -C≡C-;

Z is selected from O, S, and a double bond to an atom of  $R^1$ ;

A is either -N( $R^5$ )- or a single bond;

each  $R^6$  is independently selected from -H, halogen, trihalomethyl, -CN, -NO<sub>2</sub>, -NH<sub>2</sub>, -OR<sup>5</sup>, -N( $R^5$ ) $R^5$ , -S(O)<sub>0.2</sub> $R^5$ , -SO<sub>2</sub>N( $R^5$ ) $R^5$ , -CO<sub>2</sub> $R^5$ , -C(O)N( $R^5$ ) $R^5$ , -N( $R^5$ )SO<sub>2</sub> $R^5$ , -N( $R^5$ )C(O) $R^5$ , -N( $R^5$ )CO<sub>2</sub> $R^5$ , -C(O) $R^5$ , optionally substituted lower alkyl, optionally substituted aryl, optionally substituted heterocyclyl, optionally substituted

heterocyclalkyl, optionally substituted arylalkyl, and a single bond to an atom of  $R^2$  of D or E when said either D or E is  $=C(R^2)-$ ;

two of  $R^6$ , together with the atom or atoms to which they are attached, can combine to form one of an optionally substituted three to seven-membered alicyclic, an optionally substituted three to seven-membered heteroalicyclic, and a double bond to an atom of  $R^2$  of D or E when said either D or E is  $=C(R^2)-$ ;

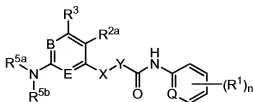
each  $R^7$  is independently selected from  $-H$ ,  $-CN$ ,  $-NO_2$ ,  $-N(R^5)R^5$ ,  $-OR^5$ ,  $-S(O)_{0-2}R^5$ ,  $-SO_2N(R^5)R^5$ ,  $-CO_2R^5$ , optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, and a single bond to a carbon of J; and

J is selected from an optionally substituted five- to ten-membered aryl and an optionally substituted five- to ten-membered heteroaryl;

provided the compound is not one of: 2-(2-amino-5-cyano-6-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-(3-trifluoromethyl-phenyl)-acetamide, 2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[3-(butyloxy)phenyl]acetamide, 2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-1,3-benzothiazol-2-ylacetamide, 2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-(5-ethyl-1,3,4-thiadiazol-2-yl)acetamide, 2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-(4-methyl-1,3-thiazol-2-yl)acetamide, 2-amino-4-{{2-(3,5-dimethyl-1H-pyrazol-1-yl)-2-oxoethyl}thio}-6-(methylthio)pyrimidine-5-carbonitrile, 2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-1,3-thiazol-2-ylacetamide, 2-(5-cyano-2-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, 5-amino-2-methylsulfanyl-thieno[2,3-d]pyrimidine-6-carboxylic acid phenylamide, 2-(6-amino-5-cyano-2-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, 4,5-diamino-2-(2-methoxy-ethoxy)-thieno[2,3-d]pyrimidine-6-carboxylic acid phenylamide, 2-(5-cyano-6-phenyl-2-phenylcarbamoylmethylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, and a 2-(6-amino-3,5-dicyano-pyridin-2-ylsulfanyl)-N-phenyl-acetamide derivative.

2. (original) The compound according to claim 1, wherein J is either a six-membered aryl or a five- to six-membered heteroaryl.
3. (original) The compound according to claim 2, wherein D is  $=C(R^2)-$ .

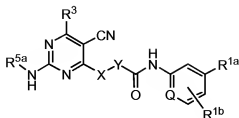
4. (original) The compound according to claim 3, wherein  $R^4$  is  $-N(R^5)R^5$ .
5. (original) The compound according to claim 4, of Formula II,



II

wherein,  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^5$ ,  $n$ ,  $B$ ,  $E$ ,  $X$ , and  $Y$  are as defined above; and  $Q$  is either  $=N-$  or  $=C(H)-$ .

6. (original) The compound according to claim 5, wherein  $R^{2a}$  is selected from halogen,  $-CN$ ,  $-C(=O)N(R^5)R^5$ ,  $-CF_3$ ,  $-CO_2R^5$ ,  $-C(R^5)=C(R^5)R^5$ ,  $-C\equiv C-R^5$ , and  $-NO_2$ ;
7. (original) The compound according to claim 6, wherein at least one of  $R^{5a}$  and  $R^{5b}$  is  $-H$ .
8. (original) The compound according to claim 7, wherein  $R^3$  is selected from  $-OR^5$ ,  $-NR^5R^5$ , and  $-S(O)_{0-2}R^5$ .
9. (original) The compound according to claim 8, wherein at least one of  $B$  and  $E$  is  $=N-$ .
10. (original) The compound according to claim 9, wherein  $R^1$  is selected from halogen,  $-OR^5$ ,  $-NR^5R^5$ ,  $-S(O)_{0-2}R^5$ ,  $-NO_2$ , perhaloalkyl, optionally substituted lower alkyl, optionally substituted aryl, and optionally substituted arylalkyl.
11. (original) The compound according to claim 10, wherein  $R^1$  is selected from halogen,  $-OR^5$ ,  $-NR^5R^5$ ,  $-S(O)_{0-1}R^5$ ,  $-NO_2$ , perhaloalkyl, and optionally substituted lower alkyl.
12. (original) The compound according to claim 11, wherein  $A$  is  $-N(R^5)-$ .
13. (original) The compound according to claim 12, of Formula III,



III

wherein,  $R^3$ ,  $R^5$ , X, Y, and Q are as defined above;  $R^{1a}$  is selected from halogen, lower perfluoroalkyl,  $-NO_2$ ,  $-OR^5$ , and optionally substituted  $C_{1-4}$ alkyl; and  $R^{1b}$  is selected from halogen,  $-OR^5$ ,  $-N(R^5)R^5$ ,  $-SR^5$ , perfluoroalkyl, and optionally substituted lower alkyl.

14. (original) The compound according to claim 13, wherein  $R^{1a}$  is selected from  $-NO_2$ , halogen, perfluoroalkyl, haloalkyl, optionally substituted  $C_{1-2}$ alkyl, and optionally substituted  $-O-C_{1-2}$ alkyl.

15. (original) The compound according to claim 14, wherein  $R^3$  is selected from optionally substituted  $-O-C_{1-4}$ alkyl,  $-O-C_{1-4}$ perfluoroalkyl, optionally substituted  $-N(H)C_{1-4}$ alkyl, optionally substituted  $-N(C_{1-4}alkyl)C_{1-4}alkyl$ , optionally substituted  $-S(O)_{0-2}-C_{1-4}alkyl$ , and optionally substituted  $-S(O)_{0-2}-C_{1-4}$ perfluoroalkyl.

16. (original) The compound according to claim 15, wherein Y is either  $-N(H)-$  or  $-C(R^6)R^6-$ .

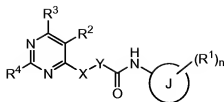
17. (original) The compound according to claim 16, wherein X is selected from  $-O-$ ,  $-N(R^5)-$  and  $-S-$ .

18. (original) The compound according to claim 17, wherein Y is  $-C(R^6)R^6-$ ; wherein each  $R^6$  is independently selected from  $-H$ , halogen, trihalomethyl,  $-NH_2$ , optionally substituted  $-O-C_{1-4}alkyl$ , optionally substituted  $-N(H)C_{1-4}alkyl$ , optionally substituted  $-S-C_{1-4}alkyl$ , optionally substituted lower alkyl, optionally substituted heterocyclyl, and optionally substituted heterocyclylalkyl.

19. (original) The compound according to claim 18, wherein Y is  $-C(H)R^6-$ ; wherein  $R^6$  is independently selected from  $-H$ , halogen, trihalomethyl,  $-NH_2$ , optionally substituted  $-O-C_{1-4}alkyl$ , optionally substituted  $-N(H)C_{1-4}alkyl$ , optionally substituted  $-S-C_{1-4}alkyl$ , optionally substituted lower alkyl, optionally substituted heterocyclyl, and optionally substituted heterocyclylalkyl.

20. (original) The compound according to claim 19, wherein Q is  $=C(H)-$ .

21. (original) A compound according to Formula IV,



IV

or a pharmaceutically acceptable salt, hydrate, or prodrug thereof, wherein,

$R^1$  is selected from halogen,  $-OR^5$ ,  $-N(R^5)R^5$ ,  $-S(O)_{0-2}R^5$ ,  $-NO_2$ ,  $-C(O)R^5$ , perhaloalkyl, optionally substituted lower alkyl, optionally substituted aryl, and optionally substituted arylalkyl.

$n$  is zero to five;

$R^2$  is selected from halogen,  $-CN$ ,  $-C(=O)N(R^5)R^5$ ,  $-CF_3$ ,  $-CO_2R^5$ ,  $-C(R^5)=C(R^5)R^5$ ,  $-C\equiv C-R^5$ , and  $-NO_2$ ;

$R^3$  is selected from  $-H$ , halogen, trihalomethyl,  $-CN$ ,  $-NO_2$ ,  $-OR^5$ ,  $-N(R^5)OR^5$ ,  $-ON(R^5)R^5$ ,  $-N(R^5)N(R^5)R^5$ ,  $-N(R^5)R^5$ ,  $-S(O)_{0-2}R^5$ ,  $-SO_2N(R^5)R^5$ ,  $-CO_2R^5$ ,  $-C(O)N(R^5)R^5$ ,  $-N(R^5)SO_2R^5$ ,  $-N(R^5)C(O)R^5$ ,  $-N(R^5)CO_2R^5$ ,  $-C(O)R^5$ ,  $-C(=NR^7)N(R^5)R^5$ ,  $-C(=NR^7)R^5$ ,  $-C(=NR^7)OR^5$ ,  $-N(R^5)C(=NR^7)N(R^5)R^5$ , optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted aryl, optionally substituted heterocyclyl, optionally substituted heterocyclylalkyl, and optionally substituted arylalkyl;

$R^4$  is selected from  $-CN$ , halogen,  $-NO_2$ ,  $-N(R^5)OR^5$ ,  $-ON(R^5)R^5$ ,  $-N(R^5)N(R^5)R^5$ ,  $-OR^5$ ,  $-N(R^5)R^5$ ,  $-SO_2N(R^5)R^5$ ,  $-C(O)N(R^5)R^5$ ,  $-C(=NR^7)N(R^5)R^5$ ,  $-C(=NR^7)R^5$ ,  $-C(=NR^7)OR^5$ ,  $-N(R^5)C(=NR^7)N(R^5)R^5$ , optionally substituted lower alkyl, optionally substituted heterocyclyl, and optionally substituted heterocyclylalkyl;

each  $R^5$  is independently selected from  $-H$ , optionally substituted lower alkyl, optionally substituted aryl, optionally substituted lower arylalkyl, optionally substituted heterocyclyl, and optionally substituted lower heterocyclylalkyl;

two of  $R^5$ , together with the atom or respective atoms to which they are attached, can combine to form an optionally substituted three- to seven-membered heterocyclic;

R<sup>5</sup> and R<sup>6</sup>, together with the atom or atoms to which they are attached, can combine to form a five- to seven-membered optionally substituted heterocyclyl;

R<sup>5</sup> and R<sup>7</sup>, together with the atom or atoms to which they are attached, can combine to form a five- to seven-membered optionally substituted heterocyclyl;

each of X and Y is independently selected from -C(=O)-, -C(R<sup>6</sup>)R<sup>6</sup>-, -O-, -N(R<sup>5</sup>)-, -C(=NR<sup>7</sup>)-, and -S(O)<sub>0-2</sub>-; provided when X is -O- or -N(R<sup>5</sup>)-, then Y cannot be -C(H)R<sup>6a</sup>-, where R<sup>6a</sup> is -C(R<sup>20</sup>)(R<sup>21</sup>)R<sup>22</sup> wherein at least one of R<sup>20</sup>, R<sup>21</sup> and R<sup>22</sup> is selected from phenyl, naphthyl, cyclohexyl, dihydronaphthyl tetrahydronaphthyl, and a five- to six-membered heteroaryl, each optionally substituted;

or X and Y can combine to form either -C(R<sup>6</sup>)=C(R<sup>6</sup>)- or -C≡C-;

each R<sup>6</sup> is independently selected from -H, halogen, trihalomethyl, -CN, -NO<sub>2</sub>, -NH<sub>2</sub>, -OR<sup>5</sup>, -N(R<sup>5</sup>)R<sup>5</sup>, -S(O)<sub>0-2</sub>R<sup>5</sup>, -SO<sub>2</sub>N(R<sup>5</sup>)R<sup>5</sup>, -CO<sub>2</sub>R<sup>5</sup>, -C(O)N(R<sup>5</sup>)R<sup>5</sup>, -N(R<sup>5</sup>)SO<sub>2</sub>R<sup>5</sup>, -N(R<sup>5</sup>)C(O)R<sup>5</sup>, -N(R<sup>5</sup>)CO<sub>2</sub>R<sup>5</sup>, -C(O)R<sup>5</sup>, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted heterocyclyl, optionally substituted heterocyclylalkyl, optionally substituted arylalkyl, and a single bond to an atom of R<sup>1</sup>;

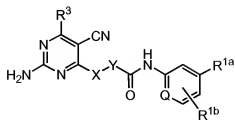
two of R<sup>6</sup>, together with the atom or atoms to which they are attached, can combine to form either an optionally substituted three to seven-membered alicyclic or an optionally substituted three to seven-membered heteroalicyclic;

each R<sup>7</sup> is independently selected from -H, -CN, -NO<sub>2</sub>, -N(R<sup>5</sup>)R<sup>5</sup>, -OR<sup>5</sup>, -S(O)<sub>0-2</sub>R<sup>5</sup>, -SO<sub>2</sub>N(R<sup>5</sup>)R<sup>5</sup>, -CO<sub>2</sub>R<sup>5</sup>, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, and a single bond to a carbon of J; and

J is selected from an optionally substituted five- to ten-membered aryl and an optionally substituted five- to ten-membered heteroaryl;

provided the compound is not one of: 2-(2-amino-5-cyano-6-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-(3-trifluoromethyl-phenyl)-acetamide, 2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[3-(butyloxy)phenyl]acetamide, 2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-1,3-benzothiazol-2-ylacetamide, 2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-(5-ethyl-1,3,4-thiadiazol-2-yl)acetamide, 2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-(4-methyl-1,3-thiazol-2-

- yl)acetamide, 2-amino-4- {[2-(3,5-dimethyl-1H-pyrazol-1-yl)-2-oxoethyl]thio} -6-(methylthio)pyrimidine-5-carbonitrile, 2- {[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio} -N-1,3-thiazol-2-ylacetamide, 2-(5-cyano-2-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, 5-amino-2-methylsulfanyl-thieno[2,3-d]pyrimidine-6-carboxylic acid phenylamide, 2-(6-amino-5-cyano-2-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, 4,5-diamino-2-(2-methoxy-ethoxy)-thieno[2,3-d]pyrimidine-6-carboxylic acid phenylamide, 2-(5-cyano-6-phenyl-2-phenylcarbamoylmethylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, and a 2-(6-amino-3,5-dicyano-pyridin-2-ylsulfanyl)-N-phenyl-acetamide derivative.
22. (original) The compound according to claim 21, wherein  $R^4$  is  $-NR^{5a}R^{5b}$ ; wherein at least one of  $R^{5a}$  and  $R^{5b}$  is  $-H$ .
23. (original) The compound according to claim 22, wherein X is selected from  $-O-$ ,  $-N(R^5)-$ , and  $-S(O)_{0-2}-$ .
24. (original) The compound according to claim 23, wherein Y is either  $-C(R^6)R^6-$  or  $-N(R^5)-$ .
25. (original) The compound according to claim 24, wherein J is either phenyl or pyridyl.
26. (original) The compound according to claim 25, wherein  $R^4$  is  $-NH_2$ .
27. (original) The compound according to claim 26, wherein at least one of  $R^1$  is selected from halo,  $-NO_2$ ,  $-OR^5$ , perfluoroalkyl, haloalkyl, and optionally substituted  $C_{1-4}$ alkyl.
28. (original) The compound according to claim 27, of Formula V,



V

wherein  $R^1$ ,  $R^3$ , X, and Y are as defined above; and Q is either  $=N-$  or  $=C(H)-$ .



29. (original) The compound according to claim 28, wherein  $R^{1a}$  is selected from halo, lower perfluoroalkyl,  $-\text{NO}_2$ , optionally substituted  $-\text{O}-\text{C}_{1-4}\text{alkyl}$ , and optionally substituted  $\text{C}_{1-4}\text{alkyl}$ .
30. (original) The compound according to claim 29, wherein  $R^3$  is selected from optionally substituted  $-\text{O}-\text{C}_{1-4}\text{alkyl}$ ,  $-\text{O}-\text{C}_{1-4}\text{perfluoroalkyl}$ , optionally substituted  $-\text{N}(\text{H})\text{C}_{1-4}\text{alkyl}$ , optionally substituted  $-\text{N}(\text{C}_{1-4}\text{alkyl})\text{C}_{1-4}\text{alkyl}$ , optionally substituted  $-\text{S}(\text{O})_{0-2}-\text{C}_{1-4}\text{alkyl}$ , and optionally substituted  $-\text{S}(\text{O})_{0-2}-\text{C}_{1-4}\text{perfluoroalkyl}$ .
31. (original) The compound according to claim 30, wherein Y is  $-\text{C}(\text{R}^6)\text{R}^6$ ; wherein each  $\text{R}^6$  is independently selected from  $-\text{H}$ , halogen, trihalomethyl,  $-\text{NH}_2$ , optionally substituted  $-\text{O}-\text{C}_{1-4}\text{alkyl}$ , optionally substituted  $-\text{N}(\text{H})\text{C}_{1-4}\text{alkyl}$ , optionally substituted  $-\text{S}-\text{C}_{1-4}\text{alkyl}$ , optionally substituted lower alkyl, optionally substituted heterocyclyl, and optionally substituted heterocyclylalkyl.
32. (original) The compound according to claim 31, wherein Y is  $-\text{C}(\text{H})\text{R}^6$ ; wherein  $\text{R}^6$  is independently selected from  $-\text{H}$ , halogen, trihalomethyl,  $-\text{NH}_2$ , optionally substituted  $-\text{O}-\text{C}_{1-4}\text{alkyl}$ , optionally substituted  $-\text{N}(\text{H})\text{C}_{1-4}\text{alkyl}$ , optionally substituted  $-\text{S}-\text{C}_{1-4}\text{alkyl}$ , optionally substituted lower alkyl, optionally substituted heterocyclyl, and optionally substituted heterocyclylalkyl.
33. (original) The compound according to claim 32, wherein Q is  $=\text{C}(\text{H})-$ .
34. (currently amended) The compound according to claim 1, selected from Table 3.

**Table 3**

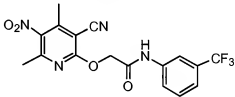
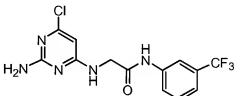
Entry	Name	Structure
1	2-[(3-cyano-4,6-dimethyl-5-nitropyridin-2-yl)oxy]-N-[3-(trifluoromethyl)phenyl]acetamide	
2	<del>N<sup>2</sup>-(2-amino-6-chloropyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide</del> N-2-(2-amino-6-chloropyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide	

Table 3

Entry	Name	Structure
3	[2-amino-6-(methylthio)pyrimidin-4-yl]methyl [3-(trifluoromethyl)phenyl]carbamate	
4	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[5-(trifluoromethyl)pyridin-2-yl]acetamide	
5	<u>N<sup>2</sup>-(2-amino-6-(methylthio)pyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide</u> N-2-{{2-amino-6-(methylthio)pyrimidin-4-yl}-N-[3-(trifluoromethyl)phenyl]glycinamide	
6	2-{{2-amino-6-(methylthio)pyrimidin-4-yl}oxy}-N-[3-(trifluoromethyl)phenyl]acetamide	
7	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[3-(methoxy)phenyl]acetamide	
8	<u>N<sup>2</sup>-(2-amino-6-morpholin-4-ylpyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide</u> N-2-{{2-amino-6-morpholin-4-ylpyrimidin-4-yl}-N-[3-(trifluoromethyl)phenyl]glycinamide	

Table 3

Entry	Name	Structure
9	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-(4-chlorophenyl)acetamide	
10	2-{{[2-amino-6-(1H-1,2,3-benzotriazol-1-yloxy)pyrimidin-4-yl]thio}-N-[3-(trifluoromethyl)phenyl]}acetamide	
11	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-(3-chlorophenyl)acetamide	
12	<u>N<sup>2</sup>-(2-amino-6-chloro-5-formylpyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide</u> <del>N-2-(2-amino-6-chloro-5-formylpyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide</del>	
13	<u>N<sup>2</sup>-(2-amino-5-formyl-6-(methylthio)pyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide</u> <del>N-2-(2-amino-5-formyl-6-(methylthio)pyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide</del>	
14	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}oxy}-N-[3-(trifluoromethyl)phenyl]acetamide	
15	2-[(2-amino-6-chloropyrimidin-4-yl)thio]-N-[3-(trifluoromethyl)phenyl]acetamide	

### Table 3

Entry	Name	Structure
16	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-methyl-N-[3-(trifluoromethyl)phenyl]acetamide	
17	<u>N<sup>2</sup>-[4-amino-6-(methylthio)-1,3,5-triazin-2-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide</u> N 2-[4 amino 6 (methylthio) 1,3,5-triazin 2-yl] N [3-(trifluoromethyl)phenyl]glycinamide	
18	<u>N<sup>2</sup>-[4-(dimethylamino)-6-(methylthio)-1,3,5-triazin-2-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide</u> N 2-[4 (dimethylamino) 6-(methylthio) 1,3,5-triazin 2-yl] N [3-(trifluoromethyl)phenyl]glycinamide	
19	<u>N<sup>2</sup>-[4-(methylamino)-6-(methylthio)-1,3,5-triazin-2-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide</u> N 2-[4 (methylamino) 6-(methylthio) 1,3,5-triazin 2-yl] N [3-(trifluoromethyl)phenyl]glycinamide	
20	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide</u> N 2-[2 amino 5 cyano 6-(methylthio)pyrimidin 4-yl] N [3-(trifluoromethyl)phenyl]glycinamide	
21	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[3-(trifluoromethyl)phenyl]acetamide 2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
22	<u>2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[3-(butyloxy)phenyl]acetamide</u> 2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[3-(butyloxy)phenyl]acetamide	

Table 3

Entry	Name	Structure
23	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-1,3-benzothiazol-2-ylacetamide '2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-1,3-benzothiazol-2-ylacetamide	
24	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-(5-ethyl-1,3,4-thiadiazol-2-yl)acetamide '2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-(5-ethyl-1,3,4-thiadiazol-2-yl)acetamide	
25	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-(4-methyl-1,3-thiazol-2-yl)acetamide '2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-(4-methyl-1,3-thiazol-2-yl)acetamide	
26	2-amino-4-[[2-(3,5-dimethyl-1H-pyrazol-1-yl)-2-oxoethyl]thio]-6-(methylthio)pyrimidine-5-carbonitrile '2-amino-4-[[2-(3,5-dimethyl-1H-pyrazol-1-yl)-2-oxoethyl]thio]-6-(methylthio)pyrimidine-5-carbonitrile	
27	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-1,3-thiazol-2-ylacetamide '2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-1,3-thiazol-2-ylacetamide	
28	ethyl 5-[(2-amino-5-cyano-6-(methylthio)pyrimidin-4-ylthio)acetyl]amino]-4-cyano-3-methylthiophene-2-carboxylate	

Table 3

Entry	Name	Structure
29	2-{{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-pyridin-2-yl}acetamide	
30	2-amino-4-({2-[2,5-bis(methyloxy)phenyl]-2-oxoethyl}thio)-6-(methylthio)pyrimidine-5-carbonitrile	
31	2-{{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-[4-fluoro-3-(trifluoromethyl)phenyl]}acetamide	
32	2-[(2,6-diaminopyrimidin-4-yl)thio]-N-[4-fluoro-3-(trifluoromethyl)phenyl]acetamide	
33	2-[(2,6-diaminopyrimidin-4-yl)thio]-N-[3-(trifluoromethyl)phenyl]acetamide	
34	2-{{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-[4-chloro-3-(trifluoromethyl)phenyl]}acetamide	

Table 3

Entry	Name	Structure
35	2-amino-4-(methylthio)-6-(2-oxo-1-[3-(trifluoromethyl)phenyl]pyrrolidin-3-yl)thio)pyrimidine-5-carbonitrile	
36	2-{{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-[6-(trifluoromethyl)pyridin-2-yl]acetamide	
37	2-{{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-[4-(trifluoromethyl)pyridin-2-yl]acetamide	
38	{6-(methylthio)-2-[(phenylmethyl)amino]pyrimidin-4-yl}methyl [3-(trifluoromethyl)phenyl]carbamate	
39	[6-(methylamino)-2-(methylthio)pyrimidin-4-yl]methyl [3-(trifluoromethyl)phenyl]carbamate	
40	{2-(methylthio)-6-[(phenylmethyl)amino]pyrimidin-4-yl}methyl [3-(trifluoromethyl)phenyl]carbamate	

Table 3

Entry	Name	Structure
41	2-[[2-(acetylamino)-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-[3-(trifluoromethyl)phenyl]acetamide	
42	(2S)-2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]oxy]-N-[3-(trifluoromethyl)phenyl]propanamide	
43	2-[(2-amino-6-chloro-5-formylpyrimidin-4-yl)thio]-N-[3-(trifluoromethyl)phenyl]acetamide	
44	<del>N-2-[2-amino-5-(hydroxymethyl)-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide</del>	
45	2-[[2-amino-5-formyl-6-(methylamino)pyrimidin-4-yl]thio]-N-[3-(trifluoromethyl)phenyl]acetamide	
46	2-[[2-amino-5-formyl-6-(methylthio)pyrimidin-4-yl]oxy]-N-[3-(trifluoromethyl)phenyl]acetamide	
47	2-[[4-amino-6-(methylthio)-1,3,5-triazin-2-yl]oxy]-N-[3-(trifluoromethyl)phenyl]acetamide	



Table 3

Entry	Name	Structure
48	2-{[2-amino-6-(methylthio)pyrimidin-4-yl]thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
49	2-amino-4-(methylthio)-6- {[2-oxo-2-(3-oxo-3,4-dihydro-2H-1,4-benzoxazin-6-yl)ethyl]thio}pyrimidine-5-carbonitrile	
50	2-[(2-amino-6-chloro-5-formylpyrimidin-4-yl)oxy]-N-[3-(trifluoromethyl)phenyl]acetamide	
51	2-{[2-amino-5-formyl-6-(phenylthio)pyrimidin-4-yl]thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
52	2- {[2-amino-5-(hydroxymethyl)-6-(phenylthio)pyrimidin-4-yl]thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
53	2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-[2-methyl-3-(trifluoromethyl)phenyl]acetamide	
54	2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-[2-(methoxy)-5-(trifluoromethyl)phenyl]acetamide	

Table 3

Entry	Name	Structure
55	2-{{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-[2-chloro-5-(trifluoromethyl)phenyl]acetamide	
56	2-{{[2-amino-5-(hydroxymethyl)-6-(methylthio)pyrimidin-4-yl]oxy}-N-[3-(trifluoromethyl)phenyl]acetamide	
57	<u>N<sup>2</sup>-(6-amino-1H-pyrazolo[3,4-d]pyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide</u> N-2-(6-amino-1H-pyrazolo[3,4-d]pyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide	
58	<u>N<sup>2</sup>-[2-amino-5-(E)-hydrazonomethyl]-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide</u> N-2-[2-amino-5-(E)-hydrazonomethyl]-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
59	<u>N<sup>2</sup>-[2-amino-5-(E)-(hydroxyimino)methyl]-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide</u> N-2-[2-amino-5-(E)-(hydroxyimino)methyl]-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
60	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	

Table 3

Entry	Name	Structure
61	2-{{2-amino-5-cyano-6-(methylamino)pyrimidin-4-yl}thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
62	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[2-amino-5-(trifluoromethyl)phenyl]acetamide	
63	2-amino-4-(methylthio)-6-({[6-(trifluoromethyl)-1H-benzimidazol-2-yl]methyl}thio)pyrimidine-5-carbonitrile	
64	2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]hydrazinecarboxamide	
65	<u>N<sup>2</sup>-[5-cyano-2-(methylamino)-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide</u> N <sup>2</sup> -[5-cyano-2-(methylamino)-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
66	2-{{2-amino-5-cyano-6-(dimethylamino)pyrimidin-4-yl}thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
67	(S)-1-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]prolinamide	

Table 3

Entry	Name	Structure
68	(2R)-2-{{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]oxy}-N-[3-(trifluoromethyl)phenyl]propanamide	
69	1-{{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]oxy}-N-[3-(trifluoromethyl)phenyl]cyclopropane carboxamide	
70	(2S)-2-{{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]oxy}-3-methyl-N-[3-(trifluoromethyl)phenyl]butanamide	
71	<u>N<sup>2</sup>-[5-cyano-2-(dimethylamino)-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide</u> <u>N-2-[5-cyano-2-(dimethylamino)-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide</u>	
72	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N<sup>2</sup>-methyl-N-[3-(trifluoromethyl)phenyl]glycinamide</u> <u>N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]glycinamide</u>	
73	1-{{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]amino}-N-[3-(trifluoromethyl)phenyl]cyclopropane carboxamide	

Table 3

Entry	Name	Structure
74	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylsulfinyl)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methylsulfinyl)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
75	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylsulfonyl)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methylsulfonyl)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
76	<u>N<sup>2</sup>-(5-cyano-2-morpholin-4-yl)pyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide</u> N-2-(5-cyano-2-morpholin-4-yl)pyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide	
77	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[3,5-bis(trifluoromethyl)phenyl]acetamide	
78	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	

Table 3

Entry	Name	Structure
79	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[2-(methoxy)-5-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[2-(methoxy)-5-(trifluoromethyl)phenyl]-L-alaninamide	
80	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[2-chloro-5-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[2-chloro-5-(trifluoromethyl)phenyl]-L-alaninamide	
81	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-2-methyl-N-[3-(trifluoromethyl)phenyl]alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-2-methyl-N-[3-(trifluoromethyl)phenyl]alaninamide	
82	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(4-methylpiperazin-1-yl)carbonyl]phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(4-methylpiperazin-1-yl)carbonyl]phenyl]-L-alaninamide	
83	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-D-alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-D-alaninamide	

Table 3

Entry	Name	Structure
84	2-[(2-amino-5-cyano-6-morpholin-4-yl)pyrimidin-4-yl]thio]-N-[3-(trifluoromethyl)phenyl]acetamide	
85	(R)-1-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]prolinamide	
86	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide</u> <del>N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide</del>	
87	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N<sup>2</sup>-[2-(dimethylamino)ethyl]-N-[3-(trifluoromethyl)phenyl]glycinamide</u> <del>N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-[2-(dimethylamino)ethyl]-N-[3-(trifluoromethyl)phenyl]glycinamide</del>	
88	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> <del>N-2-[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</del>	
89	<u>N<sup>2</sup>-(2,6-diamino-5-cyanopyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> <del>N-2-(2,6-diamino-5-cyanopyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</del>	

Table 3

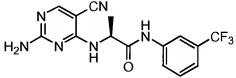
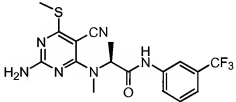
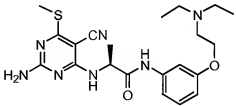
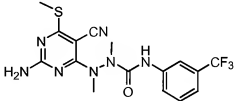
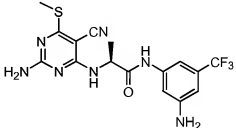
Entry	Name	Structure
90	<u>N<sup>2</sup>-(2-amino-5-cyanopyrimidin-4-yl)-</u> <u>N-[3-(trifluoromethyl)phenyl]-L-</u> <u>alaninamide</u> N-2-[2-amino-5-cyanopyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
91	<u>N<sup>2</sup>-[2-amino-5-cyano-6-</u> <u>(methylthio)pyrimidin-4-yl]-N-2-</u> <u>methyl-N-[3-</u> <u>(trifluoromethyl)phenyl]-L-</u> <u>alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
92	<u>N<sup>2</sup>-[2-amino-5-cyano-6-</u> <u>(methylthio)pyrimidin-4-yl]-N-(3-{[2-</u> <u>(diethylamino)ethyl]oxy}phenyl)-L-</u> <u>alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-(3-{[2-(diethylamino)ethyl]oxy}phenyl)-L-alaninamide	
93	2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-1,2-dimethyl-N-[3-(trifluoromethyl)phenyl]hydrazinecarboxamide	
94	<u>N<sup>2</sup>-[2-amino-5-cyano-6-</u> <u>(methylthio)pyrimidin-4-yl]-N-[3-</u> <u>amino-5-(trifluoromethyl)phenyl]-L-</u> <u>alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-amino-5-(trifluoromethyl)phenyl]-L-alaninamide	



Table 3

Entry	Name	Structure
95	ethyl [1-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-2-({[3-(trifluoromethyl)phenyl]amino}carbonyl)hydrazino]acetate	
96	2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-2-methyl-N-[3-(trifluoromethyl)phenyl]hydrazinecarboxamide	
97	3,5-diamino-4,6-dimethyl-N-[3-(trifluoromethyl)phenyl]furo[2,3-b]pyridine-2-carboxamide	
98	3-amino-4,6-dimethyl-5-nitro-N-[3-(trifluoromethyl)phenyl]furo[2,3-b]pyridine-2-carboxamide	
99	<u>N<sup>2</sup>-(2-amino-5-cyano-6-hydroxypyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-(2-amino-5-cyano-6-hydroxypyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
100	<u>N<sup>2</sup>-[5-cyano-2-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide</u> N-2-[5-cyano-2-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	

Table 3

Entry	Name	Structure
101	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N<sup>2</sup>-(tetrahydro-2H-pyran-4-ylmethyl)-N-[3-(trifluoromethyl)phenyl]glycinamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-(tetrahydro-2H-pyran-4-ylmethyl)-N-[3-(trifluoromethyl)phenyl]glycinamide	
102	<u>N<sup>2</sup>-(2-amino-5-cyano-6-{[2-(dimethylamino)ethyl]oxy}pyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-(2-amino-5-cyano-6-{[2-(dimethylamino)ethyl]oxy}pyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
103	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N<sup>6</sup>-{[(1,1-dimethylethyl)oxy]carbonyl}-N-[3-(trifluoromethyl)phenyl]-L-lysineamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N <sup>6</sup> -{[(1,1-dimethylethyl)oxy]carbonyl}-N-[3-(trifluoromethyl)phenyl]-L-lysineamide	
104	2-amino-4-(methylthio)-6-(methyl{[(1S)-1-[6-(trifluoromethyl)-1H-benzimidazol-2-yl]ethyl]amino}pyrimidine-5-carbonitrile	

Table 3

Entry	Name	Structure
105	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N<sup>2</sup>-(2-(tetrahydro-2H-pyran-4-yl)ethyl)-N-[3-(trifluoromethyl)phenyl]glycinamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-[2-(tetrahydro-2H-pyran-4-yl)ethyl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
106	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-{2-(diethylamino)ethyl}amino]-5-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-{2-(diethylamino)ethyl}amino]-5-(trifluoromethyl)phenyl]-L-alaninamide	
107	2-amino-4-(methylthio)-6-((1S)-1-[6-(trifluoromethyl)-1H-benzimidazol-2-yl]ethyl)amino)pyrimidine-5-carbonitrile	
108	2-{2-amino-5-cyano-6-[1-(3-trifluoromethyl-phenyl)carbamoyl]-1S-ethylamino}-pyrimidin-4-ylamino}-N-(3-trifluoromethyl-phenyl)-2S-propionamide	
109	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N<sup>2</sup>-methyl-N-(3-methylphenyl)glycinamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-methyl-N-(3-methylphenyl)glycinamide	

Table 3

Entry	Name	Structure
110	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N<sup>2</sup>-methyl-N-[3-(1-methylethyl)phenyl]glycinamide</u> N <sup>2</sup> -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N <sup>2</sup> -methyl-N-[3-(1-methylethyl)phenyl]glycinamide	
111	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N<sup>5</sup>-[imino(nitroamino)methyl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide</u> N <sup>2</sup> -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N <sup>5</sup> -[imino(nitroamino)methyl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
112	methyl 3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-L-alanyl}amino)-5-(trifluoromethyl)benzoate	
113	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-(3-nitrophenyl)-L-alaninamide</u> N <sup>2</sup> -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-(3-nitrophenyl)-L-alaninamide	
114	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-lysine</u> N <sup>2</sup> -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-lysine	

Table 3

Entry	Name	Structure
115	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(propyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(propyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
116	<u>N<sup>2</sup>-[5-cyano-2-[(2-(methyloxy)ethyl)amino]-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[5-cyano-2-[(2-(methyloxy)ethyl)amino]-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
117	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-argininamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-argininamide	
118	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylsulfinyl)pyrimidin-4-yl]-N<sup>2</sup>-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methylsulfinyl)pyrimidin-4-yl]-N <sup>2</sup> -methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	

Table 3

Entry	Name	Structure
119	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-N<sup>2</sup>-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
120	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(propyloxy)pyrimidin-4-yl]-N<sup>2</sup>-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(propyloxy)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
121	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N<sup>2</sup>-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
122	<u>N<sup>2</sup>-[2-amino-5-cyano-6-[(1-methylethyl)oxy]pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-[(1-methylethyl)oxy]pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	

Table 3

Entry	Name	Structure
123	<u>N<sup>5</sup>-acetyl-N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide</u> N-5-acetyl-N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
124	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-(3-aminophenyl)-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-(3-aminophenyl)-L-alaninamide	
125	3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-L-alanyl}amino)-N-[2-(dimethylamino)ethyl]-5-(trifluoromethyl)benzamide	
126	2-(methyloxy)ethyl ((4S)-4-{{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]amino}-5-oxo-5-{{[3-(trifluoromethyl)phenyl]amino}pentyl}carbamate	
127	2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]hydrazinecarboxamide	
128	1,1-dimethylethyl ((4S)-4-{{[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]amino}-5-oxo-5-{{[3-(trifluoromethyl)phenyl]amino}pentyl}carbamate	

Table 3

Entry	Name	Structure
129	N-2-[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
130	3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-methyl-L-alanyl}amino)-N-[2-(dimethylamino)ethyl]-5-(trifluoromethyl)benzamide	
131	3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-methyl-L-alanyl}amino)-N-[3-(4-methylpiperazin-1-yl)propyl]-5-(trifluoromethyl)benzamide	
132	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N<sup>2</sup>-methyl-N-[3-[(trifluoromethyl)oxy]phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-methyl-N-[3-[(trifluoromethyl)oxy]phenyl]-L-alaninamide	



Table 3

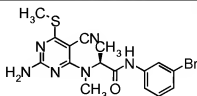
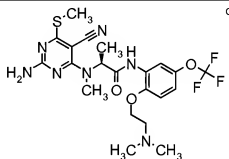
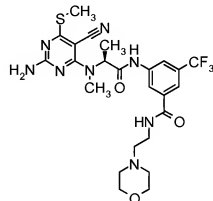
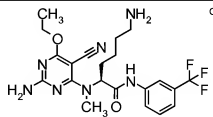
Entry	Name	Structure
133	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-(3-bromophenyl)-N<sup>2</sup>-methyl-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-(3-bromophenyl)-N-2-methyl-L-alaninamide	 Chiral
134	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-{2-[[2-(dimethylamino)ethyl]oxy]-5-[(trifluoromethyl)oxy]phenyl}-N<sup>2</sup>-methyl-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-{2-[[2-(dimethylamino)ethyl]oxy]-5-[(trifluoromethyl)oxy]phenyl}-N-2-methyl-L-alaninamide	 Chiral
135	3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-methyl-L-alanyl}amino)-N-(2-morpholin-4-ylethyl)-5-(trifluoromethyl)benzamide	 Chiral
136	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N<sup>2</sup>-methyl-N-[3-(trifluoromethyl)phenyl]-L-lysινamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]-L-lysινamide	 Chiral

Table 3

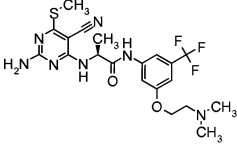
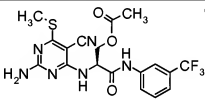
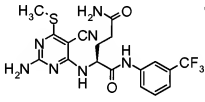
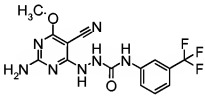
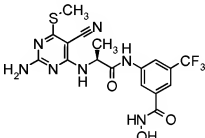
Entry	Name	Structure
137	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-{[2-(dimethylamino)ethyl]oxy}-5-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-{[2-(dimethylamino)ethyl]oxy}-5-(trifluoromethyl)phenyl]-L-alaninamide	
138	(2S)-2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}amino}-3-oxo-3-{{3-(trifluoromethyl)phenyl}amino}propyl acetate	
139	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N<sup>1</sup>-[3-(trifluoromethyl)phenyl]-L-glutamamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-1-[3-(trifluoromethyl)phenyl]-L-glutamamide	
140	2-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]hydrazinecarboxamide	
141	3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-L-alanyl}amino)-N-hydroxy-5-(trifluoromethyl)benzamide	

Table 3

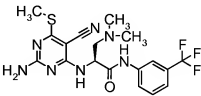
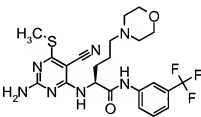
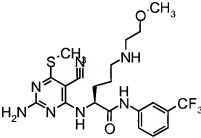
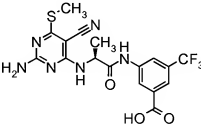
Entry	Name	Structure
142	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-3-(dimethylamino)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-3-(dimethylamino)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	 Chiral
143	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-5-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-norvalinamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-5-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-norvalinamide	 Chiral
144	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N<sup>5</sup>-[2-(methyloxy)ethyl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N <sup>5</sup> -[2-(methyloxy)ethyl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	 Chiral
145	3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-L-alanyl}amino)-5-(trifluoromethyl)benzoic acid	 Chiral

Table 3

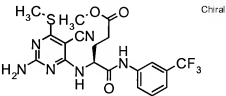
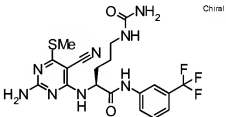
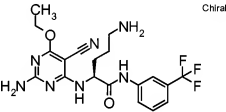
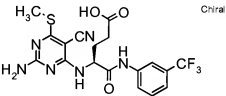
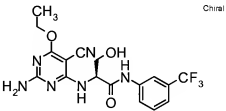
Entry	Name	Structure
146	<u>methyl N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-<math>\alpha</math>-glutamate</u> methyl N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alpha-glutamate	
147	<u>N<sup>5</sup>-(aminocarbonyl)-N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
148	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
149	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-<math>\alpha</math>-glutamine</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alpha-glutamine	
150	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-serinamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-serinamide	

Table 3

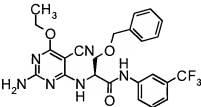
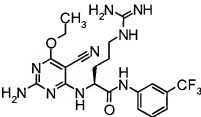
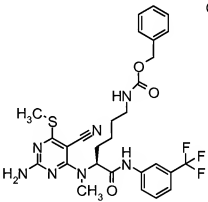
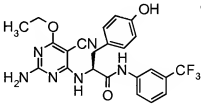
Entry	Name	Structure
151	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-O-(phenylmethyl)-N-[3-(trifluoromethyl)phenyl]-L-serinamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-O-(phenylmethyl)-N-[3-(trifluoromethyl)phenyl]-L-serinamide	 Chiral
152	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-argininamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-argininamide	 Chiral
153	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N<sup>2</sup>-methyl-N<sup>6</sup>-[[[(phenylmethyl)oxy]carbonyl]-N-[3-(trifluoromethyl)phenyl]-L-lysινamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N <sup>2</sup> -methyl-N <sup>6</sup> -[[[(phenylmethyl)oxy]carbonyl]-N-[3-(trifluoromethyl)phenyl]-L-lysινamide	 Chiral
154	Nalpha-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-tyrosinamide	 Chiral

Table 3

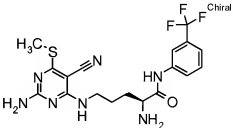
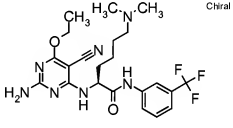
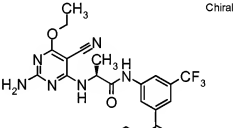
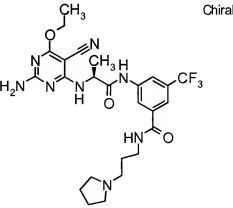
Entry	Name	Structure
155	<u>N<sup>5</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide</u> N-5-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
156	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N<sup>6</sup>-dimethyl-N-[3-(trifluoromethyl)phenyl]-L-lysινamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-6,N-6-dimethyl-N-[3-(trifluoromethyl)phenyl]-L-lysινamide	
157	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-[(4-methylpiperazin-1-yl)carbonyl]-5-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-[(4-methylpiperazin-1-yl)carbonyl]-5-(trifluoromethyl)phenyl]-L-alaninamide	
158	3-({N-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-L-alanyl}amino)-N-(3-pyrrolidin-1-ylpropyl)-5-(trifluoromethyl)benzamide	

Table 3

Entry	Name	Structure
159	3-({N-[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-L-alanyl}amino)-N-(2-morpholin-4-ylethyl)-5-(trifluoromethyl)benzamide	<p>Chiral</p>
160	3-({N-[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-L-alanyl}amino)-N-[2-(dimethylamino)ethyl]-5-(trifluoromethyl)benzamide	<p>Chiral</p>
161	3-({N-[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-L-alanyl}amino)-N-[3-(4-methylpiperazin-1-yl)propyl]-5-(trifluoromethyl)benzamide	<p>Chiral</p>

Table 3

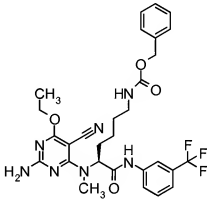
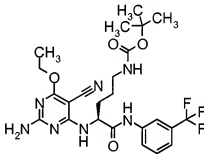
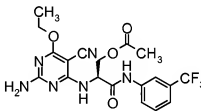
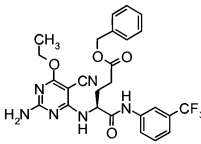
Entry	Name	Structure
162	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N<sup>2</sup>-methyl-N<sup>6</sup>-{[(phenylmethyl)oxy]carbonyl}-N-[3-(trifluoromethyl)phenyl]-L-lysineamide</u> <del>N-2-[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N-2-methyl-N-6-[[[(phenylmethyl)oxy]carbonyl]-N-[3-(trifluoromethyl)phenyl]-L-lysineamide]</del>	 Chiral
163	1,1-dimethylethyl ((4S)-4-{[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]amino}-5-oxo-5-{[3-(trifluoromethyl)phenyl]amino}pentyl)carbamate	 Chiral
164	(2S)-2-{[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]amino}-3-oxo-3-{[3-(trifluoromethyl)phenyl]amino}propyl acetate	 Chiral
165	<u>phenylmethyl N<sup>2</sup>-[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-α-glutamate</u> <del>phenylmethyl N-2-[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-α-glutamate</del>	 Chiral



Table 3

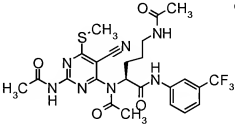
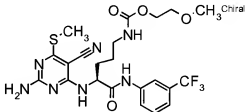
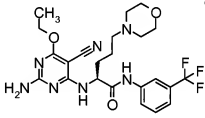
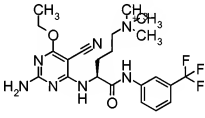
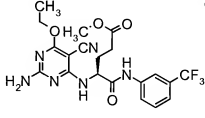
Entry	Name	Structure
166	<u>N<sup>2</sup>,N<sup>5</sup>-diacetyl-N<sup>2</sup>-[2-(acetylamino)-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide</u> N-2-[N-5--diacetyl-N-2-[2-(acetylamino)-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	 Chiral
167	2-(methyloxy)ethyl ((4S)-4-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]amino}-5-oxo-5-{[3-(trifluoromethyl)phenyl]amino}pentyl)carbamate	 Chiral
168	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-5-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-norvalinamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-5-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-norvalinamide	 Chiral
169	N-((4S)-4-{[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]amino}-5-oxo-5-{[3-(trifluoromethyl)phenyl]amino}pentyl)-N,N-dimethylmethanaminium	 Chiral
170	<u>Methyl N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-α-glutamate</u> Methyl N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-α-glutamate	 Chiral

Table 3

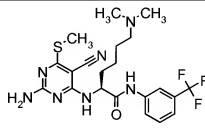
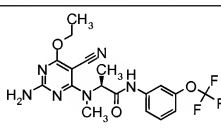
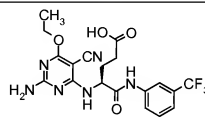
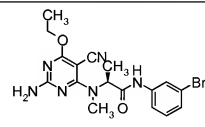
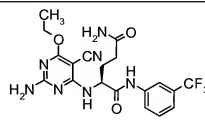
Entry	Name	Structure
171	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N<sup>6</sup>,N<sup>6</sup>-dimethyl-N-[3-(trifluoromethyl)phenyl]-L-lysineamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-6,N-6-dimethyl-N-[3-(trifluoromethyl)phenyl]-L-lysineamide	 Chiral
172	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N<sup>2</sup>-methyl-N-[3-(trifluoromethoxy)phenyl]-L-alanineamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethoxy)phenyl]-L-alanineamide	 Chiral
173	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alpha-glutamine</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alpha-glutamine	 Chiral
174	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-(3-bromophenyl)-N<sup>2</sup>-methyl-L-alanineamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-(3-bromophenyl)-N-2-methyl-L-alanineamide	 Chiral
175	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N<sup>1</sup>-[3-(trifluoromethyl)phenyl]-L-glutamineamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-1-[3-(trifluoromethyl)phenyl]-L-glutamineamide	 Chiral

Table 3

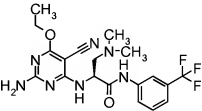
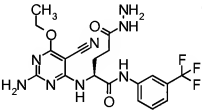
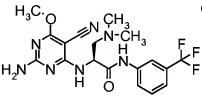
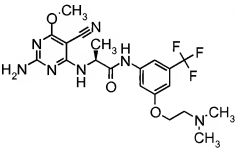
Entry	Name	Structure
176	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-3-(dimethylamino)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-3-(dimethylamino)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
177	<u>2-(2-amino-5-cyano-6-ethoxypyrimidin-4-ylamino)-5-hydrazinyl-5-oxo-N-(3-(trifluoromethyl)phenyl)pentanamide</u> Structure possibly contains amino acid derivative which is not supported in current version!	
178	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-3-(dimethylamino)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-3-(dimethylamino)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
179	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-N-[3-{{2-(dimethylamino)ethyl}oxy}-5-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-N-[3-{{2-(dimethylamino)ethyl}oxy}-5-(trifluoromethyl)phenyl]-L-alaninamide	

Table 3

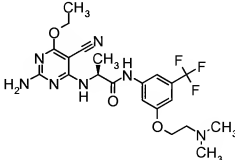
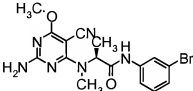
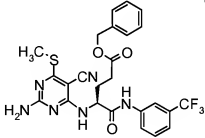
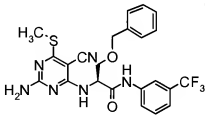
Entry	Name	Structure
180	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-([2-(dimethylamino)ethyl]oxy)-5-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-([2-(dimethylamino)ethyl]oxy)-5-(trifluoromethyl)phenyl]-L-alaninamide	 Chiral
181	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-N-(3-bromophenyl)-N<sup>2</sup>-methyl-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-N-(3-bromophenyl)-N <sup>2</sup> -methyl-L-alaninamide	 Chiral
182	<u>phenylmethyl N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-α-glutamate</u> phenylmethyl N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-α-glutamate	 Chiral
183	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-O-(phenylmethyl)-N-[3-(trifluoromethyl)phenyl]-L-serinamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-O-(phenylmethyl)-N-[3-(trifluoromethyl)phenyl]-L-serinamide	 Chiral

Table 3

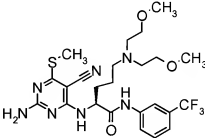
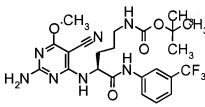
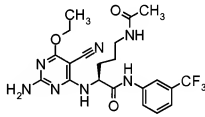
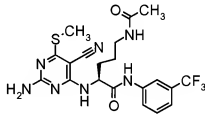
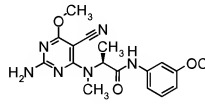
Entry	Name	Structure
184	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N<sup>5</sup>-bis[2-(methyloxy)ethyl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide</u>	 Chiral
185	1,1-dimethylethyl ((4S)-4-{[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]amino}-5-oxo-5-{[3-(trifluoromethyl)phenyl]amino}pentyl)carbamate	 Chiral
186	<u>N<sup>5</sup>-acetyl-N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide</u>	 Chiral
187	<u>N<sup>5</sup>-acetyl-N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide</u>	 Chiral
188	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-N<sup>2</sup>-methyl-N-[3-[(trifluoromethoxy)phenyl]-L-alaninamide</u>	

Table 3

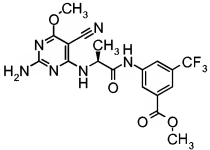
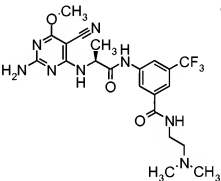
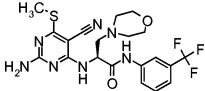
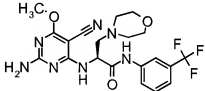
Entry	Name	Structure
189	methyl 3-({N-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-L-alanyl}amino)-5-(trifluoromethyl)benzoate	
190	3-({N-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-L-alanyl}amino)-N-[2-(dimethylamino)ethyl]-5-(trifluoromethyl)benzamide	 <p style="text-align: right;">Chiral</p>
191	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-3-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-3-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	 <p style="text-align: right;">Chiral</p>
192	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-3-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-3-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	 <p style="text-align: right;">Chiral</p>

Table 3

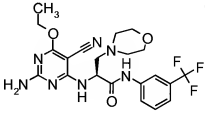
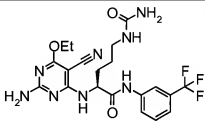
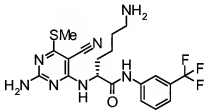
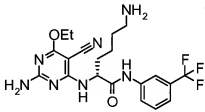
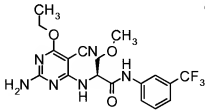
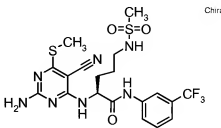
Entry	Name	Structure
193	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-3-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-3-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	 Chiral
194	<u>N<sup>5</sup>-(aminocarbonyl)-N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide</u> N-5-(aminocarbonyl)-N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	 Chiral
195	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-D-lysineamide</u> N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-D-lysineamide	 Chiral
196	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-D-lysineamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-D-lysineamide	 Chiral
197	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-O-methyl-N-[3-(trifluoromethyl)phenyl]-L-serinamide</u> N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-O-methyl-N-[3-(trifluoromethyl)phenyl]-L-serinamide	 Chiral

Table 3

Entry	Name	Structure
198	<u>N<sup>2</sup>-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N<sup>5</sup>-(methylsulfonyl)-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide</u> <del>N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-5-(methylsulfonyl)-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide</del>	

35. (previously presented) A pharmaceutical composition comprising the compound according to claim 1 and a pharmaceutically acceptable carrier.
36. (previously presented) A metabolite of the compound or the pharmaceutical composition according to claim 1.
37. (previously presented) A method of modulating the *in vivo* activity of a kinase, the method comprising administering to a subject an effective amount of a composition comprising a compound according to claim 1 and/or a compound explicitly provided against in claim 1.
38. (original) The method according to claim 37, wherein the kinase is p70S6K.
39. (original) The method according to claim 38, wherein modulating the *in vivo* activity of p70S6K comprises inhibition of p70S6K.
40. (previously presented) A method of treating diseases or disorders associated with uncontrolled, abnormal, and/or unwanted cellular activities, the method comprising administering, to a mammal in need thereof, a therapeutically effective amount of a composition comprising a compound according to claim 1 and/or a compound explicitly provided against in claim 1.
41. (previously presented) A method of screening for modulator of a p70S6 kinase, the method comprising combining either a compound according to claim 1 or a compound explicitly provided against in claim 1, and at least one candidate agent and determining the effect of the candidate agent on the activity of said kinase.



42. (previously presented) A method of inhibiting proliferative activity in a cell, the method comprising administering an effective amount of: the compound according to claim 1 and/or a compound explicitly provided against in claim 1.

43. (previously presented) A method of inhibiting abnormal metabolic activity in a cell, the method comprising administering an effective amount of: the compound according to claim 1 and/or a compound explicitly provided against in claim 1.